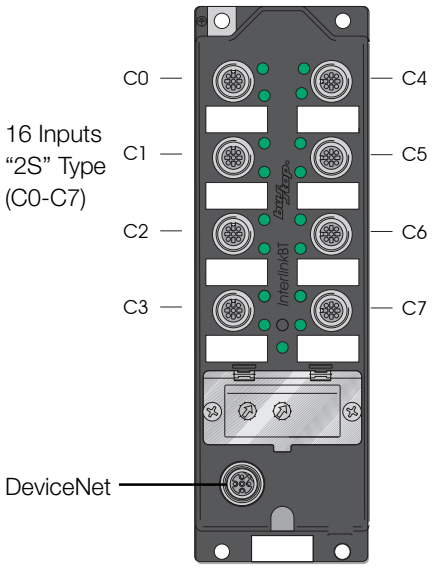


This *busstop*® station takes in up to sixteen discrete three-wire inputs or eight discrete four-wire input points per node. There are two inputs per connector-one on pin four and one on pin two.

Inputs are monitored for short-circuits as a group. A short condition is indicated by a red MOD status LED and the IGS bit. The LED and status bit automatically reset when the fault is removed.

The node address and communication rate can be set by the rotary switches located under the device cover or through software node commissioning. The unit can automatically detect the network communication rate.

The FDNL-S1600-E supports explicit messaging, poll, change of state and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

FDNL-S1600-E

- Advanced DeviceNet™ Station
- 8 x 2 discrete inputs

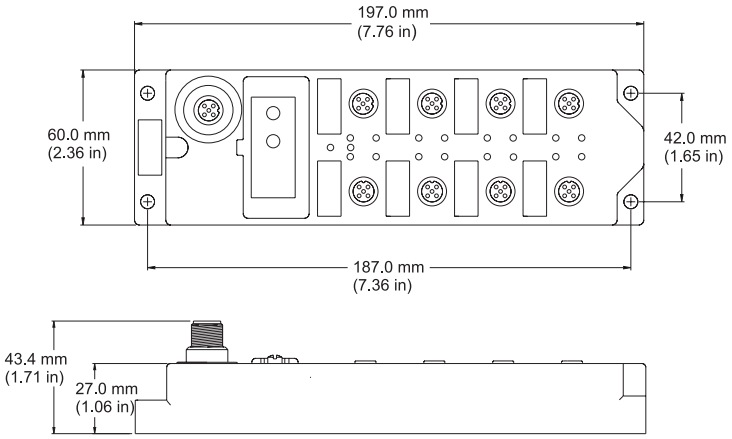
Applications

- For high density applications
- For use with eight four-wire sensors or sixteen three-wire sensors through input splitters

Features

- PNP short-circuit protected inputs
- Glass filled nylon housing with nickel plated brass connectors
- Rotary Address Switches

Dimensions



Connectors

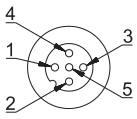
DeviceNet

Style: 5-Pin *eurofast*®

Cordset: Bus Line use RSC RKC 5711- *M

Tee : Bus Line use RSM FKM RKM 57

1 = Shield
2 = V +
3 = V -
4 = CAN_H
5 = CAN_L



Male

Through Bus

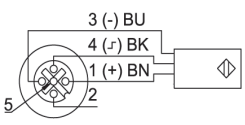
Type "2S"

Style: 5-Pin *eurofast*

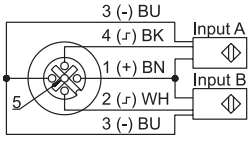
Cordset: Single Sensor use RK 4.4T-*-RS 4.4T

Splitter: Splitter and 2 Sensors use VBRS 4.4-2RK 4T-*/*

1= V +
2 = Input B
3 = V -
4 = Input A
5 = PE



Single Sensor



Splitter and 2 Sensors

Module Specifications

FDNL-S1600-E
16 PNP Input,
Group Diagnostic

Supply Voltage

Bus power	11-26 VDC
Internal current consumption	<50mA (at 24 VDC) plus sum of sensor currents (from bus power)

Input Circuits

(16) PNP 3-wire sensors or dry contacts

Input voltage (V+)	11-26 VDC (from bus power)
Input short circuit (V+)	<700 (total, short-circuit protected)
Input signal current (Input)	OFF <2mA ON 3.0-3.4 mA at 24VDC
Input delay	2.5 ms

I/O LED Indications

Off=Off
Green=On

Module Status LED

Green: working properly
Flashing green: detecting autobaud rate
Flashing red: I/O short-circuit

Network Status LED

Green: established connection
Flashing Green: ready for connection
Flashing red: connection time-out
Red: connection not possible

Adjustments

via Rotary Switch

Address	0-63

Housing

Material	glass filled nylon with nickel plated brass connectors
Enclosure	NEMA 1,3,4,12,13 and IEC IP 67
Operating temperature	-25° to 70°C (-13° to 158°F)

I/O Data Mapping

Item Number/EDS File: F0163/FNDL-S1600-E.EDS

Product Code: 7/2609 (A31 hex)

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input Data	0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
	1	I-15	I-14	I-13	I-12	I-11	I-10	I-9	I-8
	2	IGS	-	-	-	-	-	-	-

Abbreviations

I = Input Data (0=OFF, 1=ON) O = Output Data (0=OFF, 1=ON)
ISS = Input Short Status (0=Working, 1=Fault) OS = Output Status (0=Working, 1=Fault)
IOS = Input Open Status (0=Working, 1=Fault) OGS = Output Group Status (0=Working, 1=Fault)
IGS = Input Group Status (0=Working, 1=Fault) APS = Aux Power Status (0=OFF, 1=ON)